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Application Serial Number:

Source:

Date Processed by STIC:

10/678,588 TFW9

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Revised 05/17/04





IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004 TIME: 15:38:44

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

```
3 <110> APPLICANT: Jingrui Wu
 5 <120> TITLE OF INVENTION: Water-Deficit-TolerantTransgenic Plants
 7 <130> FILE REFERENCE: 38-15(52578)C
 9 <140> CURRENT APPLICATION NUMBER: US/10/678,588
 9 <141> CURRENT FILING DATE: 2003-10-02
                                                      Does Not Comply
 9 <160> NUMBER OF SEQ ID NOS: 10
                                                      Corrected Diskette Needed
11 <170> SOFTWARE: PatentIn version 3.2
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 2480
15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial
18 <220> FEATURE:
19 <223> OTHER INFORMATION: transcriptional unit comprising promoter, coding sequence for
         transcription factor of SEQ ID NO:2 and terminator elements
20
22 <400> SEQUENCE: 1
23 aggatattaa agtatgtatt catcattaat ataatcagtg tattccaata tgtactacga
                                                                          60
25 tttccaatgt ctttattgtc gccgtatgta atcggcgtca caaaataatc cccggtgact
                                                                                      1/412/12/8
                                                                         120
27 ttcttttaat ccaggatgaa ataatatgtt attataattt ttgcgatttg gtccgttata
                                                                         180
29 ggaattgaag tgtgcttgag ctcggtcgcc accactccca tttcataatt ttacatgtat
                                                                         240
31 ttgaaaaata aaaatttatg gtattcaatt taaacacgta tacttgtaaa gaatgatatc
                                                                         300
33 ttgaaagaaa tatagtttaa atatttattg ataaaataac aagtcaggta ttatagtcca
                                                                         360
35 agcaaaaaca taaatttatt gatgcaagtt taaattcaga aatatttcaa taactgatta
                                                                         420
37 tatcagctgg tacattgccg tagatgaaag actgagtgcg atattatgtg taatacataa
                                                                         480
39 attgatgata tagctagaac tagtggatcc cccgggccct gcaggctcga gctagtttga
                                                                         540
41 gatateceeg ttatggtact ggggttgeat ataacceatt cettggttgt atgeteeetg
                                                                         600
43 ttggcccatc ccttgtgcag ctgagctact tgctcccaca tgaccaaggg catcctttt
                                                                         660
45 aattgagcca tegetagatt ttgeagttaa ettgetatea ecetecatet etetgtaett
                                                                         720
47 ctgcaggtac accttgaggg gttcaatgta gtcttcaaac cccagcgtgg ccatggccca
                                                                         780
49 cagcagateg tegecattga tggtetteeg etteteeete tggcaettgt cactegette
                                                                         840
51 gctagtgatg aaggagatga actcggagac gcactcctgc acggtetect tagcgteett
                                                                         900
53 ggcgatcttc ccgttagccg ggatggtctt cccgttagcc gggatggcct tcttcatgat
                                                                         960
55 gcgactgatg ttggcgatgg gcaggaacct gtcctgctcc ctgacgctgc caccgcctcc
                                                                        1020
57 geeteeetg gggeteeege tetegtgget eeegeegeeg eegeeaggge tegeeggage
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59 ttccgccatg gtctacctac aaaaaagctc cgcacgaggc tgcatttgtc acaaatcatg
                                                                        1140
61 aaaagaaaaa ctaccgatga acaatgctga gggattcaaa ttctacccac aaaaagaaga
                                                                        1200
63 aagaaagatc tagcacatct aagcctgacg aagcagcaga aatatataaa aatataaacc
                                                                        1260
65 atagtgccct tttcccctct tcctgatctt gtttagcatg gcggaaattt taaacccccc
                                                                        1320
67 atcatctccc ccaacaacgg cggatcgcag atctacatcc gagagcccca ttccccgcga
                                                                        1380
69 gatecgggee ggatecaege eggegagage eccageegeg agatecegee ecteeegege
                                                                        1440
.71 accgatctgg gcgcgcacga agccgcctct cgcccaccca aactaccaag gccaaagatc
                                                                        1500
73 gagaccgaga cggaaaaaaa aaacggagaa agaaagagga gaggggcggg gtggttaccg
                                                                        1560
75 gcggcggcgg aggggggggggggggggct cgtcgtccgg cagcgagggg ggaggaggtg
```

1620

1680

RAW SEQUENCE LISTING DATE: 05/26/2004
PATENT APPLICATION: US/10/678,588 TIME: 15:38:44

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

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79 ggcgatgggg ggcgtttctt tggaagcgga ggqaggqccq qcctcqtcqc tgqctcqcga
81 tectectege gttteeggee eccaegacee ggacecacet getgtttttt ettttettt
83 tttttctttc ttttttttt tttggctgcg agacgtgcgg tgcgtgcgga caactcacgg
                                                                     1860
1920
87 ggttgggttg ggctgggctt gctatggatc gtggatagca ctttgggctt taggacttta
89 ggggttgttt ttgtaaatgt tttgagtcta agtttatctt ttattttac tagaaaaaat
                                                                     2040
91 acceatgege tgeaacgggg gaaagetatt ttaatettat tattgtteat tgtgagaatt
                                                                     2100
93 egeetgaata tatattttte teaaaaatta tgteaaatta geatatgggt ttttttaaag
                                                                     2160
95 atatttetta tacaaateee tetgtattta caaaageaaa egaaettaaa accegaetea
                                                                     2220
97 aatacagata tgcatttcca aaagcgaata aacttaaaaa ccaattcata caaaaatgac
                                                                     2280
99 gtatcaaagt accgacaaaa acatcctcaa tttttataat agtagaaaag agtaaatttc
                                                                     2340
101 actttgggcc accttttatt accgatattt tactttatac caccttttaa ctgatqtttt
                                                                      2400
103 cactttigac cagginatet tacettigtt thattitigga etalecegae tetettetea
                                                                      2460
105 agcatatgaa tgacctcgag
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108 <210> SEQ ID NO: 2
109 <211> LENGTH: 185
110 <212> TYPE: PRT
111 <213> ORGANISM: Zea mays
113 <400> SEQUENCE: 2
115 Met Ala Glu Ala Pro Ala Ser Pro Gly Gly Gly Gly Ser His Glu
119 Ser Gly Ser Pro Arg Gly Gly Gly Gly Gly Ser Val Arg Glu Gln
120
               20
123 Asp Arg Phe Leu Pro Ile Ala Asn Ile Ser Arg Ile Met Lys Lys Ala
           35
                               40
127 Ile Pro Ala Asn Gly Lys Thr Ile Pro Ala Asn Gly Lys Ile Ala Lys
131 Asp Ala Lys Glu Thr Val Gln Glu Cys Val Ser Glu Phe Ile Ser Phe
                       70
                                           75
135 Ile Thr Ser Glu Ala Ser Asp Lys Cys Gln Arg Glu Lys Arg Lys Thr
                                       90
139 Ile Asn Gly Asp Asp Leu Leu Trp Ala Met Ala Thr Leu Gly Phe Glu
140
               100
                                   105
                                                      110
143 Asp Tyr Ile Glu Pro Leu Lys Val Tyr Leu Gln Lys Tyr Arg Glu Met
144
           115
                               120
                                                  125
147 Glu Gly Asp Ser Lys Leu Thr Ala Lys Ser Ser Asp Gly Ser Ile Lys
148
       130
                           135
                                               140
151 Lys Asp Ala Leu Gly His Val Gly Ala Ser Ser Ser Ala Ala Gln Gly
152 145
                       150
                                           155
155 Met Gly Gln Gln Gly Ala Tyr Asn Gln Gly Met Gly Tyr Met Gln Pro
156
                   165
                                       170
159 Gln Tyr His Asn Gly Asp Ile Ser Asn
160
               180
163 <210> SEQ ID NO: 3
164 <211> LENGTH: 178
165 <212> TYPE: PRT
166 <213> ORGANISM: Zea mays
168 <400> SEQUENCE: 3
170 Met Ala Glu Ala Pro Ala Ser Pro Gly Gly Gly Gly Ser His Glu
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/678,588

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Input Set : D:\52578C.ST25.txt

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358 Ala Gly Gly Gly Val Ser Gly Glu Met Pro Ser Trp 359 130 135 140 362 <210> SEQ ID NO: 8 363 <211> LENGTH: 100

364 <212> TYPE: PRT

365 <213> ORGANISM: Artificial

367 <220> FEATURE:

368 <223> OTHER INFORMATION: protein consensus sequence

371 <220> FEATURE:

372 <221> NAME/KEY: MISC FEATURE

373 <223> OTHER INFORMATION: Xaa can be Ala or Pro

375 <220> FEATURE:

376 <221> NAME/KEY: MISC_FEATURE

377 <223> OTHER INFORMATION: Xaa can be Thr or none

379 <220> FEATURE:

380 <221> NAME/KEY: MISC FEATURE

381 <223> OTHER INFORMATION: Xaa can be Ile or none

383 <220> FBATURE:

384 <221> NAME/KEY: MISC FEATURE

385 <223> OTHER INFORMATION: Xaa can be Pro or none

387 <220> FEATURE:

388 <221> NAME/KEY: MISC FEATURE

389 <223> OTHER INFORMATION: Xaa can be Ala or none

391 <220> FEATURE:

392 <221> NAME/KEY: MISC FEATURE

393 <223> OTHER INFORMATION: Xaa can be Asn or none

395 <220> FEATURE:

396 <221> NAME/KEY: MISC FEATURE

397 <223> OTHER INFORMATION: Xaa can be Gly or none

399 <220> FEATURE:

400 <221> NAME/KEY: MISC_FEATURE

401 <223> OTHER INFORMATION: Xaa can be Lys or none

403 <220> FEATURE:

404 <221> NAME/KEY: MISC FEATURE

405 <223> OTHER INFORMATION: Xaa can be Glu or Asp

407 <220> FEATURE:

408 <221> NAME/KEY: MISC_FEATURE

409 <223> OTHER INFORMATION: Xaa can be Val or Met

411 <220> FEATURE:

412 <221> NAME/KEY: MISC_FEATURE

413 <223> OTHER INFORMATION: Xaa can be Asp or Glu

415 <220> FEATURE:

416 <221> NAME/KEY: MISC_FEATURE

417 <223> OTHER INFORMATION: Xaa can be Arg or Lys

419 <220> FEATURE:

420 <221> NAME/KEY: MISC FEATURE

421 <223> OTHER INFORMATION: Xaa can be Gln or Ala

423 <220> FEATURE:

424 <221> NAME/KEY: MISC_FEATURE

Numeric Numeric identifier 2217 and State the locations for each locations.

pls sue
ennon
explanation
on pg. 7

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 05/26/2004

PATENT APPLICATION: US/10/678,588

TIME: 15:38:45

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the uence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

#:8; Xaa Pos. 22,26,27,28,29,30,31,38,40,57,61,93,94,98

#:9; Xaa Pos. 29

#:10; Xaa Pos. 2,3,4,6

alid <213> Response:

of "Artificial" only as "<213> Organism" response is incomplete,

· 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

[#:1,8,9,10

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004 TIME: 15:38:45

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

se of n's or Xaa's (NEW RULES): ERROR Explanation; of n's and/or Xaa's have been detected in the Sequence Listing. se of <220> to <223> is MANDATORY if n's or Xaa's are present. n <220> to <223> section, please explain location of n or Xaa, and which esidue n or Xaa represents.

eq#:8; Xaa Pos. 22,26,27,28,29,30,31,38,40,57,61,93,94,98

eq#:9; Xaa Pos. 29

eq#:10; Xaa Pos. 2,3,4,6

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<210> SEQ ID NO 9
   <211> LENGTH: 55
   <212> TYPE: .PRT ....
   <213> ORGANISM: Artificial
   <220> FEATURE:
                                                                                                                                       de lete
   <223> OTHER INFORMATION: consensus protein sequence
   <220> FEATURE:
 <221> NAME/KEY: MISC FEATURE
 <223> OTHER INFORMATION: Xaa can be Gln or Glu
   <220> FEATURE:
  <221> NAME/KEY: MISC_FEATURE
<222> LOCATION: (29)..()
  <223> OTHER INFORMATION: Xaa can be Gln or Glu
  <400> SEQUENCE: 9
                 Asp Ser Lys Leu Thr Ala Lys Ser Ser Asp Gly Ser Ile Lys Lys Asp
                  Ala Leu Gly His Val Gly Ala Ser Ser Ser Ala Ala Xaa Gly Met Gly
                                                                                                       25
                  Gin Gin Gly Ala Tyr Asn Gin Gly Met Gly Tyr Met Gin Pro Gin Tyr
                                                                                            40
                  His Asn Gly Asp Ile Ser Asn
                            50
  <210> SEQ ID NO 10
  <211> LENGTH: 8
  <212> TYPE: PRT
  <213> ORGANISM: Artificial
  <220> FEATURE:
  <223> OTHER INFORMATION: consensus protein sequence
C223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C220> FEATURE:

C221> NAME/KEY: MISC_FEATURE

C221> NAME/KEY: MISC_FEATURE

C222> LOCATION: (2)..(4)

C223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C323> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C320> FEATURE:

C321> NAME/KEY: MISC_FEATURE

C321> NAME/KEY: MISC_FEATURE

C322> LOCATION: (2)..(4)

C323> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C321> NAME/KEY: MISC_FEATURE

C322> NAME/KEY: MISC_FEATURE

C321> NAME/KEY: MISC_FEATURE

C322> NAME/KEY: MISC_FEATURE

C321> NAME/KEY: MISC_FEATURE

C322> NAME/KEY: MISC_FEATURE

C323> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C323> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C323> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

C323> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 <223> OTHER INFORMATION: Xaa can be any naturally occuring amino acid
 <400> SEQUENCE: 10
                Met Xaa Xaa Pro Xaa Ser Pro
                                                                            I pls explain a pls see
ennu explanation
on pg. 7
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004 TIME: 15:38:45

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

1 M:270 C: Current Application Number differs, Replaced Current Application No M:271 C: Current Filing Date differs, Replaced Current Filing Date 137 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8 137 N:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16 141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32 145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:48 153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:80
157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:96
185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:16
17 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

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